

Horizon 2020 The Framework programme for Research and Innovation

European Parliament Committee on Industry, Research and Energy

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Copenhagen Research Forum
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CRF: Horizon 2020 is a strong and visionary proposal for Europe

Excellence, Industry & Societal challenges



- Health
- Food & Agriculture
- Energy
- Transport
- Climate & Resources
- Societies









Copenhagen Research Forum



- Recommendations from the European science community on the six Societal Challenges
- Six Danish chairs appointed by partners + European chair
- 600 top researchers invited to the virtual forum, Nov. 2011
- 10-15 top researchers invited as panel members
- Conference 16 January 2012 workshops and discussions
- Report and dissemination of recommendations

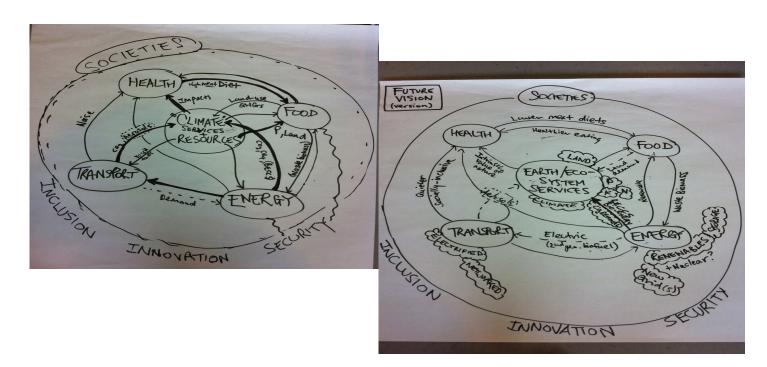








Interdisciplinarity is the main message













Sustainable Outputs, Building innovative value chains, pro-active use of food promoting health and wellbeing. Holistic perspective using cross- cutting technologies Land use & output twice as much with half the input; Value Chair Hours to hope of the state of t Hou to the Preventive health waste & diets Innovation Culture, translation, Holistic perspective full life cycle approach research triangle, in entire chain



Transition to a reliable, sustainable and competitive energy system during resource scarcity, energy needs and climate change. Match scale and complexity of energy challenge to make the transition in time.

- Refine SET Plan.
- Add new approach to calls for systemic and multidisciplinary research
- Ensure adequate funding and multiplier effect of other funds
- Expand and engage the knowledge base through University lead "Agoras" - to make ERA a vibrant knowledge ecosystem that breeds innovation.

The economic down turn and debt crisis will restrict infrastructure investments for many years

- strong sector competition for public spending

Overriding challenges

- Congestion due to overexploitation of system capacity Smart
- Greenhouse gas emissions from transport's oil dependency Green
- A modally divided and vulnerable transport system Integrated

Vision: Humanity facing grand challenges requiring a grand transition of our societies; Position Europe on a prosperous sustainable path

- Position "Climate action, Resource efficiency and raw materials" in the context of global environmental change
- Anticipate change, risk analyses, recognise surprise
- Integrated approaches needed → a new research approach
- Values, ethics, equity
- Strengthen adaptation, resilience
- Land and Water critical issues
- Stronger emphasis on biodiversity
- Global outlook, Europe and its role in the world
- New frontiers of technologies (food/fisheries; energy solutions; water innovations; early warning systems)

Well chosen focus. Creating innovative cultures. Reinvent the welfare-state/social state and Recreate politics Divergence & diversity Dual contribution of Social Sciences and Humanities. Theory is needed, This is no time for business as usual Epistemological pluralism Adjust evaluation criteria and processes for multidisciplinarit

Innovation can be achieved by embedding the 'problem definition' with societal actors, citizens and communities – not pure top-down agenda of policy-makers and business elites.

Societies

Inclusive, innovative and secure societies

Transistion to sustainable societies

Governance, economics, behavoral change, pilots/experiments, Regional Global Change models, Scaling Innovations

Health

Health, demographic change and wellbeing

Food

Food security, sustainable agriculture, marine and maritime research and the bioeconomy

Energy

Secure, clean and efficient energy

Transport

Smart, green and integrated transport

Climate

Climate action, resource efficiency and raw materials

Societies

Inclusive, innovative and secure societies

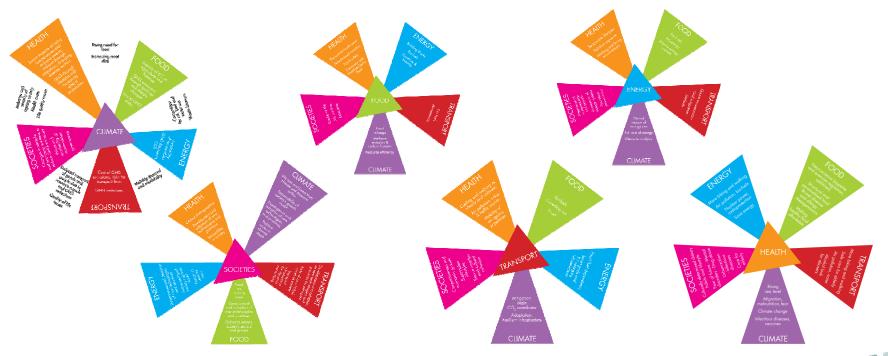






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Cross-cutting message: Interdisciplinarity











Cross-cutting framework conditions



Excellence is a prerequisite for getting the best researchers involved

The proposed simplification of Horizon 2020 is essential

Calls need to be open

Global perspective









Feed back from Ministerial Conference about CRF report

The six societal challenges were the correct choices

The interdiciplinary approach was well received by many

From research to Partnerships , innovation and jobs – how to do it ?











Europe needs to find solutions for growth, prosperity and safety.

A stronger Europe through better, stronger research.





